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OIPe

CRF Errors Corrected by the STIC Systems Branch

CRF Processing Date: 11/20/2001

Entered by: A

Entered by: A

(STIC star

Serial Number: 09/986,632

ENTERED

☐ Changed a file from non-ASCII to ASCII☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.☐ Edited a format error in the Current Application Data section, specifically:☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____☐ Added the mandatory heading and subheadings for "Current Application Data".☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.☐ Inserted colons after headings/subheadings. Headings edited included:☐ Deleted extra, invalid, headings used by an applicant, specifically:☒ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____☐ Inserted mandatory headings, specifically:☐ Corrected an obvious error in the response, specifically:☐ Edited identifiers where upper case is used but lower case is required, or vice versa:☐ Corrected an error in the Number of Sequences field, specifically:☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.☐ Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____☐ Other: _____

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

#2

RAW SEQUENCE LISTING

DATE: 11/20/2001

PATENT APPLICATION: US/09/986,632

TIME: 07:59:59

Input Set : A:\PTO.AMC.txt

Output Set : N:\CRF3\11202001\I986632.raw

3 <110> APPLICANT: AGUERA, Michelle
5 <120> TITLE OF INVENTION: Modulation of Ulip/CRMP activity for the prevention or
6 treatment of myelin disorders
8 <130> FILE REFERENCE: P06974US01/BAS
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/986,632
C--> 11 <141> CURRENT FILING DATE: 2001-11-09
13 <150> PRIOR APPLICATION NUMBER: US 60/246,751
14 <151> PRIOR FILING DATE: 2000-11-09
16 <160> NUMBER OF SEQ ID NOS: 30
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 3074
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
25 <400> SEQUENCE: 1
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27 tgcagccgcc gccgccccga gcacccgcag ctccggcgcc gcggcgagac ggagacggac 120
28 cgagccacgg gcccccgcgg ccgcagcatc tcggaggaga acatgcttgc caactcagcc 180
29 agcgtgagga tctcatcaa gggaggcaag gtggtgaacg atgactgcac ccacgaggct 240
30 gacgtctaca tcgagaatgg catcatccag caggtgggac gcgagctcat gatccctggc 300
31 ggggcccaag tgattgatgc caccaggaaa ctggtgatcc ctggtggcat cgacaccagc 360
32 acccaacttc accagacctt catgaatgcc acgtgcgtgg acgacttcta ccatgggacc 420
33 aaggcagcac tcgtcggagg caccaccatg atcatcgccc acgtcctgcc cgacaaggag 480
34 acctcccttg tggacgttta tgagaagtgc cgaggctctg ccgaccccaa ggtctgctgt 540
35 gattacgccc tccacgtggg gatcacctgg tgggcaccca aggtgaaagc agaaatggag 600
36 aactcgttga gggagaaggg tgtcaactcg ttccagatgt tcatgaccta caaggacctg 660
37 tacatgcttc gagacagtga gctgtaccaa gtgttgacg cttgcaagga cattggggca 720
38 atcgcgcgcg tccatgctga aaatggggag cttgtggccg aggggtgctaa ggaggcactg 780
39 gatttgggga tcacaggccc agaaggaatc gagatcagcc gtccagagga gctggaagct 840
40 gaagccactc atcgtgttat caccattgca aacaggactc actgtccaat ctacctgtgc 900
41 aacgtgtcca gtatctcggc tggtagctgt atcgcagctg ctaagatgca agggaaggtt 960
42 gtgctggcgg agacacacac tgcacatgcc acgctgacag gcttacacta ctaccaccag 1020
43 gactggtccc acgcggctgc ctatgtcacg gtgcctcccc tgagactgga caccacacc 1080
44 tcaacctacc tcatgagcct gctggccaat gacactctga acatcgtggc atcagatcac 1140
45 ccgactttca ccacaaagca gaaagctatg ggcaaggaaag acttaccmaa gatccacat 1200
46 ggagtgtgtg gcgtgcagga ccgcatgagc gtcactctgg agagaggagt ggttgaggga 1260
47 aagatggatg agaaccgttt tgtggccgtt accagttcca acgcagctaa gctctgtaac 1320
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49 ccgaagccca ctaagaccat ctacgcagc acgcaggctc agggaggagc cttaaccctg 1440
50 tatgagaaca tgcgtgcca cggcgtgcca ctggtacca tcagccgggg gcgctgctg 1500
51 tatgagaacg cgtcttctat gtgcgcgagc ggcaccggca agttctgtcc cctgagggtc 1560
52 ttcccagaca cgtcttataa gaagctgtgc cagagagaga agactttaaa ggttagagga 1620
53 gtggaccgca ctccctacct gggggatgtc gctgtgtctg tgcaccttgg gaaaaaagag 1680
54 atgggaaccc cactcgcaga cactcctacc cggcccgta cccggcatgg gggcatgagg 1740
55 gcaccttcag aatccagctt cgcctctctc ggctctcaga tcgatgacca tgttccaaag 1800
56 cagcttcag cttcagatct cgtcctccc ggaggcaggt cgagtggtac ttggtaaagg 1860
57 cattgccaag ccccccagat gaggaacgac cgccgccacc agcccgcaac tctccagccg 1920

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/986,632

DATE: 11/20/2001

TIME: 07:59:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11202001\I986632.raw

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58 aagctgcagg ggcaggagag gctgggcttg gtggcacacc acccgagggg ggccccggga 1980
59 cccacggagc cctccctatg tctgcaaagt gattcaactgt gcttcgagcc aactctaaca 2040
60 ggcactttga gatgtgttcc tctgctgtga gtcctttctg ccttggcctc ggcgggcttt 2100
61 tctggggccc aggaagccca cactatgcac agagcccaat gcatagagcc ctggccagcc 2160
62 cttctctcca ctctctgctc cgtctggctt gggaagccc agactttagt gcctggcccc 2220
63 ctggctgact ggccagtgc ccagagcaact ttagcagatg tggtttcaaa gtaaaggcct 2280
64 cctcccccac cccttaggcc cgtgtgtgac atttcccaag tcagacagat gtcagcttcc 2340
65 cagccatgcc caggacgtcc tatctccccc aacccacctc tggccctgtg taggggcagg 2400
66 gatgggggtg gctgggactc ctggtgcccc tcgccagctt ctctcgccc ccgccacac 2460
67 cctcgggggg gtcacaggcc cagaagggtg gctggcgagg gctcagggct ggtgccaggc 2520
68 gcgtgtaaat ggttttgttt tgcacgtttg gtttgcgcag tagtttgggt tgacttgttt 2580
69 gtgcatcctg tgaaaaataa cgggtgcttg gtoactagca tagaatagcg acaggaatag 2640
70 atgtggtcct taggagacgc tgcacttgac accaaccaga cagcacaggg cagggggtgt 2700
71 ggagggggct gggctcacag gcctctcttt tccccgcctg cagtcttctg ggcgcggga 2760
72 ggcctgggcc ctttccctt cccctccctt ccttgtctag tttccacat tccaaaagg 2820
73 ggcctgggat gctagcccca gagatgccag cccttcagga agcaggtgtc ctttccctc 2880
74 tctgcccctg atcactccca gcactccctt tgccttcccc tgtcttcacc tgcaccaca 2940
75 cacacacaca cacacacaca cacacacaca cgcattggctt cctataactt ctctctgctg 3000
76 gacagagact cagcgtcct cctgtgtgac tggcaagagg cctcatgcct gctgagagag 3060
77 ggtcgacgcg gccg 3074

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80 <210> SEQ ID NO: 2

81 <211> LENGTH: 564

82 <212> TYPE: PRT

83 <213> ORGANISM: Homo sapiens

85 <400> SEQUENCE: 2

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86 Met Leu Ala Asn Ser Ala Ser Val Arg Ile Leu Ile Lys Gly Gly Lys
87   1           5           10           15
89 Val Val Asn Asp Asp Cys Thr His Glu Ala Asp Val Tyr Ile Glu Asn
90   20           25           30
92 Gly Ile Ile Gln Gln Val Gly Arg Glu Leu Met Ile Pro Gly Gly Ala
93   35           40           45
95 Lys Val Ile Asp Ala Thr Gly Lys Leu Val Ile Pro Gly Gly Ile Asp
96   50           55           60
98 Thr Ser Thr His Phe His Gln Thr Phe Met Asn Ala Thr Cys Val Asp
99   65           70           75           80
101 Asp Phe Tyr His Gly Thr Lys Ala Ala Leu Val Gly Gly Thr Thr Met
102   85           90           95
104 Ile Ile Gly His Val Leu Pro Asp Lys Glu Thr Ser Leu Val Asp Ala
105   100          105          110
107 Tyr Glu Lys Cys Arg Gly Leu Ala Asp Pro Lys Val Cys Cys Asp Tyr
108   115          120          125
110 Ala Leu His Val Gly Ile Thr Trp Trp Ala Pro Lys Val Lys Ala Glu
111   130          135          140
113 Met Glu Thr Leu Val Arg Glu Lys Gly Val Asn Ser Phe Gln Met Phe
114   145          150          155          160
116 Met Thr Tyr Lys Asp Leu Tyr Met Leu Arg Asp Ser Glu Leu Tyr Gln
117   165          170          175
119 Val Leu His Ala Cys Lys Asp Ile Gly Ala Ile Ala Arg Val His Ala
120   180          185          190

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11202001\I986632.raw

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122 Glu Asn Gly Glu Leu Val Ala Glu Gly Ala Lys Glu Ala Leu Asp Leu
123      195      200      205
125 Gly Ile Thr Gly Pro Glu Gly Ile Glu Ile Ser Arg Pro Glu Glu Leu
126      210      215      220
128 Glu Ala Glu Ala Thr His Arg Val Ile Thr Ile Ala Asn Arg Thr His
129 225      230      235      240
131 Cys Pro Ile Tyr Leu Val Asn Val Ser Ser Ile Ser Ala Gly Asp Val
132      245      250      255
134 Ile Ala Ala Ala Lys Met Gln Gly Lys Val Val Leu Ala Glu Thr Thr
135      260      265      270
137 Thr Ala His Ala Thr Leu Thr Gly Leu His Tyr Tyr His Gln Asp Trp
138      275      280      285
140 Ser His Ala Ala Ala Tyr Val Thr Val Pro Pro Leu Arg Leu Asp Thr
141      290      295      300
143 Asn Thr Ser Thr Tyr Leu Met Ser Leu Leu Ala Asn Asp Thr Leu Asn
144 305      310      315      320
146 Ile Val Ala Ser Asp His Arg Pro Phe Thr Thr Lys Gln Lys Ala Met
147      325      330      335
149 Gly Lys Glu Asp Phe Thr Lys Ile Pro His Gly Val Ser Gly Val Gln
150      340      345      350
152 Asp Arg Met Ser Val Ile Trp Glu Arg Gly Val Val Gly Gly Lys Met
153      355      360      365
155 Asp Glu Asn Arg Phe Val Ala Val Thr Ser Ser Asn Ala Ala Lys Leu
156      370      375      380
158 Leu Asn Leu Tyr Pro Arg Lys Gly Arg Ile Ile Pro Gly Ala Asp Ala
159 385      390      395      400
161 Asp Val Val Val Trp Asp Pro Glu Ala Thr Lys Thr Ile Ser Ala Ser
162      405      410      415
164 Thr Gln Val Gln Gly Gly Asp Phe Asn Leu Tyr Glu Asn Met Arg Cys
165      420      425      430
167 His Gly Val Pro Leu Val Thr Ile Ser Arg Gly Arg Val Val Tyr Glu
168      435      440      445
170 Asn Gly Val Phe Met Cys Ala Glu Gly Thr Gly Lys Phe Cys Pro Leu
171      450      455      460
173 Arg Ser Phe Pro Asp Thr Val Tyr Lys Lys Leu Val Gln Arg Glu Lys
174 465      470      475      480
176 Thr Leu Lys Val Arg Gly Val Asp Arg Thr Pro Tyr Leu Gly Asp Val
177      485      490      495
179 Ala Val Val Val His Pro Gly Lys Lys Glu Met Gly Thr Pro Leu Ala
180      500      505      510
182 Asp Thr Pro Thr Arg Pro Val Thr Arg His Gly Gly Met Arg Asp Leu
183      515      520      525
185 His Glu Ser Ser Phe Ser Leu Ser Gly Ser Gln Ile Asp Asp His Val
186      530      535      540
188 Pro Lys Arg Ala Ser Ala Arg Ile Leu Ala Pro Pro Gly Gly Arg Ser
189 545      550      555      560
191 Ser Gly Ile Trp
196 <210> SEQ ID NO: 3
197 <211> LENGTH: 1829

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/986,632

DATE: 11/20/2001

TIME: 07:59:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11202001\I986632.raw

198 <212> TYPE: DNA

199 <213> ORGANISM: Homo sapiens

201 <400> SEQUENCE: 3

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202 cccaagtccc ctccccggca gtttttgcc taaagctgcc ctcttgaaat taattttttc 60
203 ccaggagaga gatgtcttat caggggaaga aaaatattcc acgcatcacg agcgatcgtc 120
204 ttctgatcaa aggaggtaaa attgttaatg atgaccagtc gttctatgca gacatatata 180
205 tggaagatgg gttgatcaag caaataggag aaaatctgat tgtgccagga ggagtgaa 240
206 ccatcgaggc cactccccg atggtgatcc ccggaggaat tgacgtccac actcgtttcc 300
207 agatgcctga tcagggaatg acgtctgctg atgatttctt ccaaggaaac aaggcgggcc 360
208 tggtcggggg aaccactatg atcattgacc acgttggtcc tgagcctggg acaagcctgc 420
209 tcgtgccttt tgaccagtgg agggaatggg ccgacagcaa gtccgtgctgt gactactctc 480
210 tgcatgtgga catcagcgag tggcataaag gcatccagga ggagatggaa gcgcttgta 540
211 aggatcacgg ggtaaattcc ttctcgtgtg acatggcttt caaagatcgc ttccagctaa 600
212 cggtattgcca gatttatgaa gtaactgagt tgatccggga tattggcgcc atagcccaag 660
213 tccacgcaga aaatggcgac atcattgcag aggagcagca gaggatcctg gatctgggca 720
214 tcacggggccc cgaggacat gtgctgagcc gacctgagga ggtcgaggcc gaagccgtga 780
215 atcgtgcca caccatcgcc aaccagacca actgcccgt gtatatcacc aaggtgatga 840
216 gcaaaagctc tgctgaggtc atcgcccagg cacggaagaa gggaaactgtg gtgtatggcg 900
217 agcccatcac tgcagcttg tgaacgagc gctccatta ctggagcaag aactgggcca 960
218 aggtctgtgc ctttgtcacc tccccaccct tgagccctga tccaaccact ccagactttc 1020
219 tcaactcctt gctgtcctgt ggagacctcc aggtcacggg cagtgcctat tgcacgttta 1080
220 aactgcccc gaaggctgta ggaaggaca acttcacct gattccggag ggcaccaatg 1140
221 gcactgagga gcgagtgtcc gtcactggg acaaggctgt ggtcactggg aagatggatg 1200
222 agaaccagtt tgtggtgtg accagcaca atgcagccaa agtcttcaac ctttaccccc 1260
223 gaaaaggccg cattgtctgt ggtaccgatg ccgacctgt catctgggac cccgacagcg 1320
224 ttaaaaccat ctctgccaag acacacaaca gctctctcga gtacaacatc ttggaaggca 1380
225 tggagtgcgg cggtccccc ctggtgtgta tcagccaggg gaagattgtc ctggaggagc 1440
226 gcacctgca tgcaccgaa ggctctggac gctacattcc ccggaagccc ttccctgatt 1500
227 ttgtttacaa gcgtatcaag gcaaggagca ggctggctga gctgagaggg gttcctcgtg 1560
228 gctgtatga cggaccctgt tgtgaagtgt ctgtgacgcc caagacagtc actccagcct 1620
229 cctcggccaa gacgtctcct gccaaagcagc agggcccacc tgtccggaac ctgcaccagt 1680
230 ctggattcag ttgtctggt gctcagattg atgacaacat tccccgccgc accaccagc 1740
231 gtatcgtggc gcccccgggt ggccgtgcca acatcaccag cctgggctag agtctcgtgg 1800
232 ctgtgccgtc cactggggac tggggatgg 1829

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235 <210> SEQ ID NO: 4

236 <211> LENGTH: 572

237 <212> TYPE: PRT

238 <213> ORGANISM: Homo sapiens

240 <400> SEQUENCE: 4

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241 Met Ser Tyr Gln Gly Lys Lys Asn Ile Pro Arg Ile Thr Ser Asp Arg
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244 Leu Leu Ile Lys Gly Gly Lys Ile Val Asn Asp Asp Gln Ser Phe Tyr
245 20 25 30
247 Ala Asp Ile Tyr Met Glu Asp Gly Leu Ile Lys Gln Ile Gly Glu Asn
248 35 40 45
250 Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala His Ser Arg Met
251 50 55 60
253 Val Ile Pro Gly Gly Ile Asp Val His Thr Arg Phe Gln Met Pro Asp
254 65 70 75 80

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/986,632

DATE: 11/20/2001

TIME: 07:59:59

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11202001\I986632.raw

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256 Gln Gly Met Thr Ser Ala Asp Asp Phe Phe Gln Gly Thr Lys Ala Ala
257      85      90      95
259 Leu Ala Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu Pro
260      100      105      110
262 Gly Thr Ser Leu Leu Ala Ala Phe Asp Gln Trp Arg Glu Trp Ala Asp
263      115      120      125
265 Ser Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Ser Glu Trp
266      130      135      140
268 His Lys Gly Ile Gln Glu Glu Met Glu Ala Leu Val Lys Asp His Gly
269 145      150      155      160
271 Val Asn Ser Phe Leu Val Tyr Met Ala Phe Lys Asp Arg Phe Gln Leu
272      165      170      175
274 Thr Asp Cys Gln Ile Tyr Glu Val Leu Ser Val Ile Arg Asp Ile Gly
275      180      185      190
277 Ala Ile Ala Gln Val His Ala Glu Asn Gly Asp Ile Ile Ala Glu Glu
278      195      200      205
280 Gln Gln Arg Ile Leu Asp Leu Gly Ile Thr Gly Pro Glu Gly His Val
281      210      215      220
283 Leu Ser Arg Pro Glu Glu Val Glu Ala Glu Ala Val Asn Arg Ala Ile
284 225      230      235      240
286 Thr Ile Ala Asn Gln Thr Asn Cys Pro Leu Tyr Ile Thr Lys Val Met
287      245      250      255
289 Ser Lys Ser Ser Ala Glu Val Ile Ala Gln Ala Arg Lys Lys Gly Thr
290      260      265      270
292 Val Val Tyr Gly Glu Pro Ile Thr Ala Ser Leu Gly Thr Asp Gly Ser
293      275      280      285
295 His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Ala Phe Val Thr Ser
296      290      295      300
298 Pro Pro Leu Ser Pro Asp Pro Thr Thr Pro Asp Phe Leu Asn Ser Leu
299 305      310      315      320
301 Leu Ser Cys Gly Asp Leu Gln Val Thr Gly Ser Ala His Cys Thr Phe
302      325      330      335
304 Asn Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Thr Leu Ile Pro
305      340      345      350
307 Glu Gly Thr Asn Gly Thr Glu Glu Arg Met Ser Val Ile Trp Asp Lys
308      355      360      365
310 Ala Val Val Thr Gly Lys Met Asp Glu Asn Gln Phe Val Ala Val Thr
311      370      375      380
313 Ser Thr Asn Ala Ala Lys Val Phe Asn Leu Tyr Pro Arg Lys Gly Arg
314 385      390      395      400
316 Ile Ala Val Gly Ser Asp Ala Asp Leu Val Ile Trp Asp Pro Asp Ser
317      405      410      415
319 Val Lys Thr Ile Ser Ala Lys Thr His Asn Ser Ser Leu Glu Tyr Asn
320      420      425      430
322 Ile Phe Glu Gly Met Glu Cys Arg Gly Ser Pro Leu Val Val Ile Ser
323      435      440      445
325 Gln Gly Lys Ile Val Leu Glu Asp Gly Thr Leu His Val Thr Glu Gly
326      450      455      460
328 Ser Gly Arg Tyr Ile Pro Arg Lys Pro Phe Pro Asp Phe Val Tyr Lys

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/986,632

DATE: 11/20/2001

TIME: 08:00:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\11202001\I986632.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date